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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/523,069	01/27/2005	Atsushi Tanno	OGW-0353	8379	
Patrick G. Bur	7590 03/20/200	8	EXAM	UNER	
Greer, Burns &	k Crain, Ltd.	BELLINGER, JASON R			
Suite 2500 300 South Wa	cker Drive	ART UNIT	PAPER NUMBER		
Chicago, IL 60		3617			
			MAIL DATE	DELIVERY MODE	
			03/20/2008	PAPER	

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

Application No.	Applicant(s)	Applicant(s)		
10/523,069	TANNO, ATSUSHI			
Examiner	Art Unit			
Jason R. Bellinger	3617			

	Jason R. Bellinger	3617					
The MAILING DATE of this communication appe	ears on the cover sheet with the c	correspondence ac	ldress				
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of them may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the making date of this communication.  If NO profit or reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the making date of this communication.  If NO profit or reply is specified above, the maximum statutory pointed will apply and will expire SIX (6) MONTHS from the making date of this communication.  Any reply received by the Office biar than three months after the making date of this communication, even if timely filed, may reduce any earned pattern term adjustment. See 37 CFR 1.70 MONTHS.							
Status							
1) Responsive to communication(s) filed on 03 Jan	nuary 2008.						
2a) This action is FINAL. 2b) ☐ This :	action is non-final.						
3) Since this application is in condition for allowan	ce except for formal matters, pro	secution as to the	merits is				
closed in accordance with the practice under Ex	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1 and 3-13 is/are pending in the applic	ation						
4a) Of the above claim(s) <u>3-7</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1, 8-13</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d)							
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form P	ΓO-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign   a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	)-(d) or (f).					
1.☐ Certified copies of the priority documents	have been received						
Certified copies of the priority documents     Certified copies of the priority documents		on No					
Copies of the certified copies of the priority			Ctono				
application from the International Bureau	•	ou in this National	Stage				
* See the attached detailed Office action for a list of		ed.					
	·						
Attachment(s)							

- 1) Notice of References Cited (PTO-892)
- Notice of Draftsperson's Patent Drawing Review (PTO-948)
   Information Disclosure Statement(s) (PTO/SE/US)
   Paper No(s)/Mail Date \_\_\_\_\_\_.
- 4) Interview Summary (PTO-413)
  Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application.
  6) Other: \_\_\_\_\_.
- Office Action Summary

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#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Atwell,
- Jr. In Figures 4 and 4A, Atwell, Jr. shows a disk wheel 10 with a rim 16 located at the peripheral edge of the disk 14. The rim 16 includes inboard and outboard bead seats with a protruding hump and radially outwardly extending flanges. A ring-like element 18 circumferentially extends from the rim 16, and is located between the hump and inboard rim flange. The inboard annular rim flange includes an inboard facing surface that is generally co-planar with an inboard facing surface of the ring-like element 18. The ring-like element 18 is only provided on the inboard bead seat portion.

Atwell, Jr. does not specify that the cross-sectional area of the element 18 is 0.1-0.4 times larger than the cross-sectional area of the thickness of the rim flange plus the width-wise length of the bead seat multiplied by the thickness of the rim adjacent the hump. It would have been obvious to one of ordinary skill in the art at the time of the invention to form the ring-like element of Atwell, Jr. with a thickness sufficient to prevent the weight 26 from being dislodged during operation, and to serve as a reinforcing rib to distribute forces imparted on the rim.

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3. Claims 1, 8-11, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Atwell, Jr. as applied to claim 12 above, and further in view of Archibald. Atwell, Jr. discloses that the wheel is a lightweight wheel 10, formed from an aluminum or magnesium alloy. The ring-like element 18 protrudes inwardly from the radially inner surface of the rim 16. The co-planar surface of the ring-like element 18 and the inboard rim flange extend in a direction generally orthogonal to the central rotation axis of the wheel.

Atwell, Jr. does not show only a single ring-like element located on the rim.

Archibald teaches the use of a wheel having a rim with a single ring-like element 64.

Therefore from this teaching, it would have been obvious to one of ordinary skill in the art at the time of the invention to form the wheel of Atwell, Jr. with only ring-like element 18 thereon in order to reduce the weight of the wheel. Namely, one of ordinary skill in the art at the time of the invention would have found the use of a known technique to improve similar devices in the same way would yield predictable results. In this case, Archibald teaches providing only a single ring-like element on a rim, which would reduce the overall weight of the wheel. Atwell, Jr. shows a rim having a pair of ring-like elements. One of ordinary skill in the art would find it obvious to remove the second ring-like element 18 of Atwell, Jr. in order to reduce the weight of the wheel. See KSR International Co. v. Teleflex Inc. 550 U.S. \_\_\_\_\_, 82 USPQ2d 1385 (April 30, 2007).

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### Response to Arguments

 Applicant's arguments with respect to claims 1 and 8-13 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Schmidt et al shows a wheel rim having ring-like elements thereon.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason R. Bellinger whose telephone number is 571-272-6680. The examiner can normally be reached on Mon - Thurs (9:00-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Morano can be reached on 571-272-6684. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jason R Bellinger/ Primary Examiner Art Unit 3617